## Approved For Release 2003/02/27: CIA-RDP75B00285R000400110011-4

OSA	-0974-67
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27 February 1967

5X1	To:		
	Subject:	SUMMARY OF BW-3 PERSONAL EQUIPMENT MEETING FEBRUARY 15, 16, 1967	
5X1			
	The follow on Februa points and	ring summary is our understanding of the results of our meetings ry 15th and 16th. Please feel free to comment on any of these opinions.	
	1. <u>Se</u>	at Headrest	
5X1		A. No problems with the headrest in the aft position. All pilots can reach it unpressurized. All pilots except one, can reach the headrest pressurized. On some pilots the adjustment of the helmet hold down and seat kit side straps were a factor in reaching the headrest. Two helmets were the larger size model.	
		B. Can't justify the parachute modifications, neck relief, on basis of need. though now comfortable, would like to have neck area of parachute modified.	25X1
	(	C. Seven pilots were checked for length of shoulder harness to be used without the adjustment buckle.  Lengths came out as follows:	
		61-3/16; 60-11/16; 62-1/8; 61-3/4; 60-7/8; 61, and 66-3/8.	
		The last one was	25X′
	į	All pilots used sleeping bag cushion with the small spacer in the back removed except who said he could not use it because, chute hung on his back and he could not go down far enough when	25X <sup>2</sup>

On file USAF release instructions apply.

refueling.

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	E.	We are committed to have new shoulder harness 27 February 1967.	
	F.	will modify drogue flap to protect metal spring in drogue pack and to reduce cutting into headrest.	
2.	Seat Be	<u>elt</u>	
	<b>A.</b>	Submit test report.	
	В.	Have hardware in four weeks.	
3.	to th	l we submit a proposal to add a URT27 radio beacon ne seat since main chute beacon is available only below 000 feet and in mountainous terrain its utility is too ricted at those low altitudes?	
4.	A.	Enlarged ping pong balls for life vest and horse collar inflation were found impractical in the cockpit checkout. A tee handle will be evaluated. In the interim, the small red knob shall be used with relocated life vest inflator.	
	в.	The added horse collar is very effective in righting floatation to a face upward position. It was reasonably compatible in the cockpit. The added bulk in the neck ring area makes the new shoulder harness mandatory. Access to the riser releases is restricted when collar is inflated. Access uninflated should also be checked out.	25X1
	C.	Access to parachute chest strap is also restricted by the horse collar.	
	D.	New collar will be available in forty-five days. It will be furnished with automatic inflator furnished by us.	
	E.	Horse collar was demonstrated with the auto-inflator in the second immersion. Its ability to save a disabled man was obvious when used on the horse collar.	
		Opinion differs on where auto-inflators should be used. The pilots want them on the vest only.  wants them on the horse collar only.  inflation of a vest with an unopened chest strap on an unconscious man may cause trouble. We will submit a qualification and reliability report on auto-inflators including Navy Qualification Report, if any.	25X1 25X1

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### 5. Suit Controller Beefed-up Fittings and Guard

- A. Firewel will submit ECP to beef-up fittings.
- B. Suit controller guard In cockpit evaluation it was objected to because it did not accomplish protection enough to justify its use.
- C. Instead, the following action is being taken:

Increase bending strength of fittings outside the guarded area.

### 6. Tee-handle Parachute Release

Pilots request that opening be enlarged to permit pilots to get finger through to grip D-ring. Firewel to do.

### 7. Auxiliary Emergency Cooling

- A. Airplane modification is waiting for decision on which airplane it will be installed on.
- B. Firewel will make heat chamber runs instrumented to determine effectiveness. will work on this requirement and coordinate with Firewel.
- C. Pilots have been using IR shields improperly. They said, take them off, apparently unaware that they shall be used only when they have a heat problem. With the new aft vents in the cockpit, the pilots said they don't need the IR shields. We asked them to keep them for emergency cooling.

## 8. PPG Visors

All pilots like them. SPO is buying fifty for SR-71. They will have extended defrosting grids. Three to four months until first one will be delivered.

#### 9. Heated Gloves

- A. Identified elements to heat gloves.
- B. Seems feasible to produce.
- C. will make one pair for test and power requirement evaluation.

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10.	Super	Insulation	Spacer	in	Suit
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- A. Discontinued it because they don't seem to need it.
- B. Pilots say it is too bulky.
- 11. Inadvertent Life Vest and Life Raft Inflation is a question of concern with the pilots:
  - A. Beale and are running tests and proposing various remedies.
  - B. Relief valve on vest to relieve at 2-1/2 psi.
  - C. proposing an automatic raft stabber.
  - D. Beale is flying with oral inflation tube exposed and clipped to the garment, but with the valve unlocked and available for instant manual pressure release.

# 12. New Raft - Two Stage Inflation

- A. Looks very promising. Boarding with horse collar is no problem. For that matter, the horse collar did not seem to hinder boarding the conventional raft.
- B. David Clark will attempt to get packed volume and weight of new raft down to size and weight of present raft.

## 13. Automatic Survival Kit

- A. will submit test and cost proposal to test.
- B. Altitude choice of settings shall be blocked above 13,000 feet.
- C. Choice of delay shall be blocked below nine seconds which will be subject of later review.

# 14. URT27 Beacon Tests on Whirl Tower

- A. New Installation beacon in chute by 27 February 1967.
- B. Minimum of four tower tests to be conducted and scheduled after agreed upon design.
- C. Face heat and charged oxygen system to be included in these tests if feasible.

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	15.	Face:	Heat	
25X1		Α.	Test program proposal and report to be submitted by	
		B.	Charging data and servicing information to be submitted.	
		C.	Environmental and qualification tests to be submitted.	
	16.	Face p is con	plate release knob protector proved to lack feasibility and sidered dropped.	
	17.	New H	eadrest	
		Α.	Static test, take movies to evaluate effect on human body and required further testing. This has been done.	
			Best regards	25X1
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